

AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Previously Presented) A regenerator disposed on a flow passage for a working gas, formed by stacking a film-shaped resin member in a direction crossing a flow direction of the working gas,

said resin member including a projection formed by subjecting a surface of said resin member to plastic deformation and having an opening on its tip, and

said projection providing a gap between layers of said stacked resin member.

3. (Cancelled)

4. (Cancelled)

5. (Currently Amended) The regenerator according to claim 2, wherein

on the surface of said resin member, the projection in a prescribed ~~region~~ are region is adjusted to have a height different from a height of the projection in another region.

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) The regenerator according to claim 2, wherein

said regenerator is arranged between a compression space and an expansion space of a Stirling refrigerator, and

on the surface of said resin member, the number of the projections per unit area is increased as the distance from said expansion space decreases, compared to the side of said compression space.

9. (Previously Presented) A Stirling refrigerator, provided with a regenerator that is disposed on a flow passage for a working gas and is formed by stacking a film-shaped resin member in a direction crossing a flow direction of the working gas,

said resin member including a projection formed by subjecting a surface of said resin member to plastic deformation and having an opening on its tip, and

said projection providing a gap between layers of said stacked resin member.

10. (Currently Amended) The Stirling refrigerator according to claim 9, wherein on the surface of said resin member, the projection in a prescribed region being is adjusted to have a height that is different from a height of the projection in another region.

11. (Previously Presented) The Stirling refrigerator according to claim 9, wherein said Stirling refrigerator includes a compression space and an expansion space, and on the surface of said resin member, the number of the projections per unit area is increased as the distance from said expansion space decreases, compared to the side of said compression space.

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Canceled)

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18. (Cancelled)

19. (Cancelled)